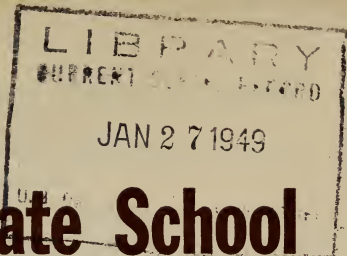


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# Graduate School

1948-49



28th Year

## Schedule of Classes

### *Spring Semester*

February 7 to May 20

**REGISTRATION—Begins January 29**

#### HOURS:

9:00 A.M. to 7:30 P.M., Monday through Friday,  
January 31 through February 4

9:00 A.M. to 5:00 P.M., Saturdays,  
January 29 and February 5

Late registration fee charged  
after February 5

#### PLACE:

The Patio, Administration Building,  
U. S. Department of Agriculture

# Time Schedule and Supplement

## to 1948-49 Bulletin

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**Complete details**, including rules and regulations, policies, and course descriptions, are given in the 1948-49 Bulletin. Counselors and training officers of your agency have a copy which you may examine. A limited number of these BULLETINS is available for distribution to those who did not receive copies in the fall. Write or call in person. **Please do not telephone.**

**Counseling** on courses and programs of study is available at all times from members of the School staff who are glad to assist students in planning their work.

**Registration**: begins January 29 (The Patio, Administration Building, Department of Agriculture). See schedule of hours on front cover. No one will be registered for credit after February 18, except with special permission of instructor and Registrar. Registration closes in a course when the maximum for that class is reached.

**Late Registration**: After February 5, a \$2.00 per course late registration fee will be charged.

**Business office**, Room 1031, South Agriculture Building, will be open from 9:00 a.m. to 6:20 p.m., Monday through Friday.

**Textbooks** may be purchased in Room 1041, South Agriculture Building, from 1:00 p.m. to 6:30 p.m., January 31 through February 4 inclusive, and from 2:00 p.m. to 8:00 p.m., February 7 through February 11 inclusive. Open Saturdays, January 29 and February 4, from 9:00 a.m. to 5:00 p.m.

**Refund** of fees, less \$3.00 registration fee, may be granted in case of withdrawal before 6:20 p.m., February 18. After this date no refunds will be approved unless the student is compelled to leave Washington because of official governmental action.

**Room schedules** will be posted on the 4th and 7th wing bulletin boards in the South Agriculture Building.

**Classes begin** during week of February 7, end the week of May 16.

Graduate School, Department of Agriculture  
Washington 25, D.C.

Please send me your 1948-49 BULLETIN.  
(Fall requests will not be duplicated.)

Name .....

Street .....

City ..... Zone  
No. ....

**Explanation:** Basic information about each course is given in the following order: course number, title, instructor, day and hour of class meeting, fee, and page of 1948-49 **Bulletin** on which description may be found. The first half and the second half of a course are indicated by a and b respectively.

## ACCOUNTING

- 352<sup>a</sup>. Principles of Accounting—First Half (Marshall)  
Tu 6-7 Th 6-9 \$24 p. 77
- 352<sup>b</sup>. Principles of Accounting—First Half (Rowe) M 6-9  
W 6-7 \$24 p. 77
- 353<sup>b</sup>. Intermediate Accounting—Second Half (Hord) M  
6-9 \$24 p. 77
423. Mathematics of Finance (Botts) W 6-9 \$27 p. 77
354. Federal Government Accounting (Mason) W 6-9  
\$24 p. 78
- 693<sup>b</sup>. Auditing (Cooper) W 6-8 \$18 p. 78
695. Accounting Systems (Acker) M 6-8 \$18 p. 78

## ADMINISTRATION AND ADMINISTRATIVE TECHNIQUES

### ADMINISTRATIVE MANAGEMENT

108. Administrative Procedure (Adams) Tu 6-8 \$16  
p. 49
208. Advanced Administrative Procedure (Moseley) M  
6-8 \$16 p. 49
217. Advanced Records Management (Donaldson) Tu  
6-8 \$16 p. 52
413. Office Management (Braun) M 6-8 \$18 p. 52
341. American National Government (C. Smith) Tu  
6:30-8:30 \$16 p. 66
344. Introduction to Public Administration (Brown)  
W 6-9 \$24 p. 66
515. The Legislative Process (G. Smith) Tu 6-9 \$27  
p. 66
400. Administrative Operations for Congressional As-  
sistants (to be announced) \$18 p. 67
570. Management Responsibilities for the Administra-  
tive Scientist (Harwood, McCrensky) Tu 6-8 \$18  
p. 67
627. Reporting to Top Management (French) Tu 6-8  
\$18 p. 67
710. Public Relationships in Government Administra-  
tion (Webster) Th 6-8 \$18 p. 68
- 555<sup>b</sup>. Principles and Techniques of O&M Work (Gill,  
Levine, Young) W 6-8 \$18 p. 68
519. Work Measurement and Performance Standards  
(McKillop) Tu 6-8 \$18 p. 69
- Organization and Methods Clinic (McKillop) p. 69

### BUDGETARY AND FISCAL MANAGEMENT

101. Business Mathematics (Botts) Th 6-8 \$16 p. 49
110. Federal Auditing Procedure (Cruikshank) M 6-8  
\$16 p. 50
210. Advanced Federal Auditing Procedure (Collins) Tu  
6-8 \$16 p. 50
112. Federal Accounting Procedure (Tierney) W 6-9  
\$24 p. 50
116. Federal Budgetary Procedure (Wilhelm) Tu 6-8  
\$16 p. 50
122. Federal Payroll Procedure (Krueger) Tu 6-8 \$16  
p. 51
636. Agency Budgetary and Financial Administration:  
Budget Execution (Roberts) Th 6-8 \$18 p. 70

### LEGAL ADMINISTRATION

- 422<sup>b</sup>. Business Law (Mostow) Tu 6:30-8:30 \$18 p. 77
663. Legal Aspects of Investigation—Criminal Evi-  
dence and Procedure (Koebel) M 6-8 \$18 p. 74

## PERSONNEL MANAGEMENT

114. Federal Personnel Procedure (Mohagen) M 6-8 \$16 p. 51  
214. Advanced Federal Personnel Procedure (Mohagen) Tu 6-8 \$16 p. 52  
561. Public Personnel Administration (Stahl) Tu 6-8 \$18 p. 71  
629. Tests and Measurements (Haggerty) M 6-8 \$18 p. 71  
559. Position Classification (Laxton) M 6-8 \$18 p. 71  
643. Advanced Position Classification (Laxton, Findlay) Tu 6-8 \$18 p. 72  
720. Seminar in Federal Position Classification (Buckley) M 6-8 \$18 p. 72  
535. Safety Engineering I: Technical Functions (Jenkins) M 6-8 \$18 p. 72

## PROPERTY ADMINISTRATION

215. Advanced Federal Purchasing Procedure (Scammarhorn) M 6-8 \$16 p. 51

## ARTS

321. Pencil Sketching and Freehand Drawing (Cadmus) M-W 6-8 \$24 p. 113  
323. Portrait Painting in Oil (Lazzari) M-W 6-8 \$24 p. 113  
320. Water Color Painting (Lyon) M-Th 6-8 \$24 p. 113  
231. Home Decoration—Furniture (Garrels) W 6-7 \$8 p. 114  
233. Home Decoration—Modern (Garrels) W 7-8 \$8 p. 114  
329. Home Gardening (Youngman) W 6:15-8:15 \$16 p. 115  
188<sup>b</sup>. Glass Blowing \$24 p. 115  
Section I<sup>1</sup> (Clark) M-W 4:30-6:00  
Section II (to be arranged)

## BIOLOGICAL SCIENCES

320. Human Physiology (Olson) M-Th 6:30-9:00 \$32 and \$10 laboratory fee p. 20  
210. Systematic Botany (Blake) M 6-8 \$16 p. 20  
201. Beekeeping (Nolan) W 6:30-8:30 \$16 p. 21  
300. Fundamentals of Entomology (Sailer) Tu 6-9 \$24 p. 21  
518. New Developments in Insecticides (Bishopp) M 6-8 \$18 p. 21  
701. Virus Diseases of Man and Animals (Habel) Tu 7-9 \$18 p. 22

## LANGUAGES AND LITERATURE

### ENGLISH AND LITERATURE

- 222<sup>a</sup>. English Composition (Miller) Tu 6-9 \$24 p. 23  
222<sup>b</sup>. English Composition (Ward) Tu 6-9 \$24 p. 24  
223. Descriptive English Grammar (Ward) M 6-8 \$16 p. 24  
118. Practical English Usage (White) Th 6-8 \$16 p. 24  
119. Vocabulary Building (Murphy) Th 6-8 \$16 p. 24  
51. English for Foreign Students<sup>2</sup> (Young) Th 6-8 \$16 p. 24  
330<sup>b</sup>. Great Books (Ruppert) M 6:30-8:30 \$16 p. 24

### SPEECH

229. Public Speaking (Beauchamp) Th 6-8 \$16 and \$1.50 laboratory fee p. 25  
567. Principles of Persuasion (Oliver, Beauchamp) W 6-8 \$18 p. 25

<sup>1</sup> To be given at the Naval Research Laboratory.

<sup>2</sup> To be given at the Pan American Union.



205. Oral Interpretation (Wakeham) M 6-8 \$16 and \$1.50 laboratory fee p. 26
234. Correction of Speech Dialect<sup>1</sup> (Emery) Th 6-8 \$16 p. 26
305. Radio—Writing and Speaking (Rowell) Tu 6-8 \$16 and \$1.50 laboratory fee p. 26

### WRITTEN PRESENTATION

360. Advanced Practice in Editing (White) M 6-8 \$16 p. 27
224. Creative Writing (Holt) Tu 6-8 \$16 p. 27
410. Creative Writing Workshop (Holt) Th 6-8 \$18 p. 28
250. Interpretive Writing on Official Action (McClarren, Gilstrap) Th 6:30-8:30 \$16 p. 28
200. Readable Writing (Cowing, Mileham) Th 6-8 \$16 p. 28
237. Government Printing Procedure (Anderson) Th 6-8 \$16 p. 29

### FOREIGN LANGUAGES

- 253<sup>a</sup>. Elementary French (DeMarne) M-F 6-7:30 \$24 p. 31
- 253<sup>b</sup>. Elementary French \$24 p. 31  
Section I<sup>1</sup> (Arnould) M-W 6-7:30  
Section II (DeNoia) M-Th 6-7:30
- 254<sup>b</sup>. Intermediate French (Rosenfield) Tu-Th 6-7:30 \$24 p. 31
- 255<sup>b</sup>. French Conversation (DeMarne) W 6-8 \$16 p. 31
- 259<sup>a</sup>. Elementary German (Mr. Lederer) W 6-9 \$24 p. 31
- 259<sup>b</sup>. Elementary German (Mrs. Lederer) W 6-9 \$24 p. 31
- 260<sup>b</sup>. Intermediate German (Ponti) M 6-9 \$24 p. 31
60. Elementary Scientific German<sup>2</sup> (Secreton) Tu-Th 4:30-5:30 \$16 p. 32
61. Intermediate Scientific German<sup>2</sup> (Secreton) M-W 4:30-5:30 \$16
- 270<sup>b</sup>. Elementary Italian (Rossetti) M 6-9 \$24 p. 32
- 295<sup>a</sup>. Elementary Russian (Tarakus) W 6-9 \$24 p. 32
- 295<sup>b</sup>. Elementary Russian \$24 p. 32  
Section I (Schuler) M 6-9  
Section II (Lapiken) Tu 6-9
- 296<sup>b</sup>. Intermediate Russian (Saharov) Th 6-9 \$24 p. 32
- 299<sup>b</sup>. Advanced Russian (Saharov) Tu 6-9 \$24 p. 32
49. Elementary Scientific Russian<sup>2</sup> (Pingell) (time to be arranged) \$16 p. 33
- 300<sup>a</sup>. Elementary Spanish (Jaffe) Th 6-9 \$24 p. 33
- 300<sup>b</sup>. Elementary Spanish \$24 p. 33  
Section I (Batista) W 6-9  
Section II<sup>1</sup> (Ysita) M-W 6-7:30
- 301<sup>b</sup>. Intermediate Spanish<sup>1</sup> (Garcia-Tunon) Tu-Th 6-7:30 \$24 p. 33
- 302<sup>b</sup>. Spanish Conversation and Literature (R. Supervia) Th 6-8 \$16 p. 33
- 574<sup>b</sup>. Advanced Spanish Conversation (G. Supervia) Th 6-8 \$18 p. 33

### LETTER WRITING

120. Government Letter Writing (Samson) F 6-8 \$16 p. 53

### LIBRARY SERVICE

71. Introduction to Library Techniques (Hasting) \$16 p. 29  
Section I Tu 6:30-8:30  
Section II W 6:30-8:30

## MATHEMATICS AND STATISTICS

### MATHEMATICS

102. Algebra<sup>3</sup> (Kaplan) M-W 4:40-6:10 \$24 p. 39

<sup>1</sup> To be given at the Pan American Union.

<sup>2</sup> To be given at the Naval Research Laboratory.

<sup>3</sup> To be given at the Naval Gun Factory.

104. **Trigonometry** \$16 p. 40  
     Section I<sup>2</sup> (Kaplan) Tu-Th 4:40-5:40  
     Section II<sup>3</sup> (Lane) F 2-4  
     Section III (Rhodes) Tu 6:00-8:00
105. **Analytic Geometry**<sup>2</sup> (Theilheimer) M-W 4:40-6:40  
     \$32 p. 40
105. **Analytic Geometry**<sup>4</sup> (Rosenblatt) Tu-Th 3:40-5:40  
     \$32 p. 40
106. **Analytic Geometry** (Rhodes) Th 6:00-8:00 \$16  
     p. 40
- 206<sup>b</sup>. **Calculus** \$32 p. 40  
     Section I (Greville) Tu-Th 6-8  
     Section II<sup>4</sup> (Jackson) M-W-Th 3:50-5:10  
     Section III<sup>1</sup> (Pode) Tu-F 3:45-5:45
307. **Survey of College Mathematics** (Geisler) W 6:30-9:30 \$24 p. 40
- 500<sup>b</sup>. **Advanced Calculus** (Greenspan) Tu 8-10 \$18 p. 40

## STATISTICS

110. **Graphic Methods of Presenting Statistics** (Hainsworth, Guidry) M 6-8 \$16 p. 42
- 126<sup>b</sup>. **Introductory Statistics** (Purves, Larsen) W 6:15-8:15  
     \$16 p. 42
- 127<sup>b</sup>. **Principles of Statistical Analysis** (Lucas) Tu-Th 6-7:30 \$24 p. 42
318. **Machine Tabulation** (Kaufman) W 6:30-8:30 \$16  
     p. 42
319. **Advanced Application of Tabulating Equipment** (Kaufman) F 6:30-8:30 \$16 p. 43
- 400<sup>b</sup>. **Introduction to Mathematical Statistics** (Tepping) Tu-F 6:30-8:00 \$27 p. 43
- 735<sup>b</sup>. **Theory of Sample Surveys** (Steinberg) W 7:30-9:30  
     \$18 p. 43
- 739<sup>b</sup>. **Multivariate Analysis** (Daly) W 6-9 \$27 p. 44
- 727<sup>b</sup>. **The Planning of Statistical Surveys** (Jaffe) Tu 7-9  
     \$18 p. 45
021. **Seminars in Sampling and Statistical Inference** (Deming, Horton) (time to be arranged) p. 46

## PHOTOGRAPHY

70. **Popular Photography** (Johnston) M 7-9 \$16 p. 116
192. **Fundamentals of Photography I** (Koch) M 6-8  
     \$16 p. 116
193. **Practice of Photography I** (Beales) W 6-8 \$16 and  
     \$3 laboratory fee p. 116
194. **Fundamentals of Photography II** (Cobb) W 6-8  
     \$16 p. 117
195. **Practice of Photography II** \$16 and \$3 laboratory  
     fee p. 117  
     Section I (Purdy) M 6-8  
     Section II (Beales) Tu 6-8
307. **Color Photography—Theory** (Materazzi) W 7-9  
     \$16 p. 117
308. **Color Photography—Practice** (Mohr) Th 6-9 \$24  
     and \$5.00 laboratory fee p. 117
- 360<sup>b</sup>. **Portrait Photography** (Purdy) F 6-8 \$16 and \$4  
     laboratory fee p. 117

## PHYSICAL SCIENCES

- 248<sup>b</sup>. **Organic Chemistry** (Haworth, Williamson) M-Th 6:30-9 \$32 and \$10 laboratory fee p. 56
- 400<sup>b</sup>. **Advanced Organic Chemistry** (Bowen) Th 6-8 \$18  
     p. 57
- 522<sup>b</sup>. **Advanced Biochemistry** (Johnston) W 6-8 \$18  
     p. 57
531. **Soils: Their Morphology, Genesis, and Classification** (Nikiforoff) Tu-Th 6-7:30 \$27 p. 58
526. **Advanced Physical Metallurgy** (Loring) Tu 6:30-8:30 \$18 p. 59

<sup>1</sup> To be given at the David Taylor Model Basin.

<sup>2</sup> To be given at the Naval Gun Factory.

<sup>3</sup> To be given at the Naval Ordnance Laboratory.

<sup>4</sup> To be given at the Naval Research Laboratory.



162. Principles of Meteorology (Johnson) M 6-8 \$16  
p. 59
- 536<sup>b</sup>. Physical and Synoptic Meteorology (Shands) W 6-9  
\$27 p. 60
- 153<sup>b</sup>. College Physics (Kilgore) M-Th 6:30-9 \$32 and \$5  
laboratory fee p. 60

## SHORTHAND

89. Review of Gregg Shorthand (Evans) Tu-Th 6-7:30  
\$24 p. 55
129. Beginning Gregg Shorthand I (to be announced)  
M-W-F 7:10-8:10 \$24 p. 55
130. Beginning Gregg Shorthand II (to be announced)  
M-W-F 6-7 \$24 p. 55
230. Gregg Shorthand, 70 to 100 words (Morgan) Tu-Th  
6-7:30 \$24 p. 55
231. Gregg Shorthand, 100 to 130 Words (Rowland) M-W  
6-7:30 \$24 p. 55
336. Reporting—Gregg, 150 Words Up (Foote) M-Th 6:30-  
8:30 \$32 p. 55
339. Shorthand in Spanish<sup>1</sup> (Nin) Th 6-8 \$16 p. 55

## SOCIAL SCIENCES

### GENERAL ECONOMICS

- 201<sup>b</sup>. Principles of Economics (Burroughs) Tu 6-9 \$24  
p. 84
- 480<sup>b</sup>. Money and Banking (Fisher, Horsefield) Th 7-9 \$18  
p. 84
418. Public Finance and Taxation (Haygood) W 6-8  
\$18 p. 84
741. Contemporary Economic Thought (Allin) Th 6-9  
\$27 p. 85

### AGRICULTURAL ECONOMICS

409. Farm Management (Goodsell) Tu 6-8 \$18 p. 88
720. Seminar in Economics of Production (S. Johnson)  
Sat. 9:30-12:30 a.m. \$27 p. 88

### RESOURCE UTILIZATION AND CONSERVATION

- 719<sup>b</sup>. Seminar in Resource Utilization and Conserva-  
tion (V. Johnson, Josephson) M 6:15-8:15 \$18  
p. 89

### MARKETING

- 414<sup>b</sup>. Economics of Marketing (Southworth, Trelogan)  
Tu 6:15-8:15 \$18 p. 90
- 530<sup>b</sup>. Methods of Price Analysis (Been, Walsh) W 6:15-  
8:15 \$18 p. 90
722. Seminar in Marketing (Waugh, Crow) W 6:30-8:30  
\$18 p. 90
- 407<sup>b</sup>. History of Agricultural Policy in the United States  
Since the Colonial Period (Edwards) Th 6-8 \$18  
p. 91

## COOPERATIVE EXTENSION EDUCATION

450. Methods and Techniques (Gallup and Others) (time  
to be arranged) \$18 p. 91

### CONSUMPTION ECONOMICS

325. Managing Personal Finances (Larsen) Tu 6:15-8:15  
\$16 p. 92

### HEALTH AND MEDICAL SERVICES

460. Introduction to Medical Economics (Klem) M 6-8  
\$18 p. 93

<sup>1</sup> To be given at the Pan American Union.

## INTERNATIONAL RELATIONS

- 525<sup>b</sup>. The Application of Psychoanalytic Theory and Methods to Problems of International Relations (Spitzer) M 6-8 \$18 p. 98  
820. Seminar in American Foreign Relations, Policies and Practices (N. Johnson) Tu 6-9 \$27 p. 99  
443<sup>b</sup>. Contemporary Far East—China and Southeast Asia (Djang, Hendershot) Tu 6-8 \$18 p. 100  
Economic Recovery and World Politics p. 97

## TRANSPORTATION

126. Traffic Management (Perrin) W 6-8 \$16 p. 102  
346. Economics of Transportation (Church) Th 6-8 \$16 p. 102

## PSYCHOLOGY

400. Psychology of Human Relations (Longmore) W 6:30-8:30 \$18 p. 103  
502. Rural Social Psychology (Taylor) M 6-8 \$18 p. 104  
503. The Conditions of Personality Growth (Froehlich) M 6-8 \$18 p. 104  
43. Personal Development (Provinsen, Galvin) Tu 6-8 \$16 p. 29

## SOCIOLOGY

508. Agricultural Employment and Wages (Ducoff) Tu 6-8 \$18 p. 105  
448. Sociology and Psychology of Group Relations (Ensminger) M 6-8 \$18 p. 106  
470. Introduction to General Semantics (Saunders) W 7:30-9:30 \$18 p. 106

## TECHNOLOGY

### ENGINEERING

325. Basic Mechanical Drawing II (Wiemer) Tu-F 6-8 \$24 and \$3 laboratory fee p. 114  
341. Architectural Drafting II (Wiemer) M-Th 6-8 \$24 and \$2.50 laboratory fee p. 115  
343. Architectural Drafting IV (Wiemer) M-Th 6-8 \$24 and \$2.50 laboratory fee p. 115  
403. Principles of Air Conditioning (Dill) Tu 6-8 \$18 p. 108  
310<sup>b</sup>. Aerodynamics (Long) F 6-8 \$16 p. 109  
554. Protecting Engineering and Scientific Developments Through Patents (Kramer) Th 6-8 \$18 p. 110

### SURVEYING AND MAPPING

217. Astronomy for Engineers (Rappleye) M 6-8 \$24 (Field work all day every fourth Saturday) p. 111  
213. Photogrammetry II (Higginson) \$16 p. 112  
Section I<sup>1</sup> M 7-9  
Section II<sup>2</sup> W 7-9  
214<sup>b</sup>. Cartography (Everett) Tu 6-8 \$16 p. 112  
240. Methods of Map Reproduction (Delaney) W 7-9 \$16 p. 112

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## ECONOMIC RECOVERY AND WORLD POLITICS

A series of free lectures, open to the interested public, given at the Department of Agriculture Auditorium at 6:00 p. m., as scheduled:

- Feb. 2:—World Economic Recovery; Willard L. Thorp  
Feb. 23:—Recovery of Western Europe; Richard M. Bissell, Jr.  
Mar. 9:—Economic Development of Latin America; Amos E. Taylor  
Mar. 30:—The Economic Outlook in Asia and the Far East; Robert W. Barnett  
Apr. 13:—Soviet Policies and World Recovery; to be announced

<sup>1</sup> To be given at Clarendon.

<sup>2</sup> To be given at Bolling Field.